

CLIPPEDIMAGE= JP411289701A

PAT-NO: JP411289701A

DOCUMENT-IDENTIFIER: JP 11289701 A

TITLE: STATOR OF RELUCTANCE MOTOR

PUBN-DATE: October 19, 1999

INVENTOR-INFORMATION:

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NAME	COUNTRY
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APPL-NO: JP10091798

APPL-DATE: April 3, 1998

INT-CL (IPC): H02K003/18;H02K003/34 ;H02K019/10

ABSTRACT:

PROBLEM TO BE SOLVED: To provide the stator of a reluctance motor which has superior electromagnetic performance by a method, wherein electrodes consisting of layered cores are formed without caulking or welding of the tip parts of the electrodes.

SOLUTION: A plurality of layered cores 20 are divided for respective electrodes in the direction of an output shaft. Coils 30 are wound on the respective layered cores 20 to form winding parts 40. The plurality of layered cores 20 are combined into a cylindrical shape to form the stator of a reluctance motor. The winding part 40 is formed to gradually reduce the number of turns of the coil 30 from the outer circumference side to the inner circumference side of the layered core 20. Further, more the winding tension on the

reduced turns
side is higher than the winding tension on the other side.

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TITLE: Stator structure of reluctance motor - includes wire winding portion in which number of wires reduced towards peripheral side of iron core

PATENT-ASSIGNEE: NISSAN MOTOR CO LTD [NSMO]

PRIORITY-DATA: 1998JP-0091798 (April 3, 1998)

PATENT-FAMILY:

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ABSTRACTED-PUB-NO: JP 11289701A

BASIC-ABSTRACT: NOVELTY - A coil (30) is wound around each laminated iron core (20) of every electrode unit so as to form a wire winding portion (40). Several laminated iron cores are coupled to constitute a stator. The coil is wound such that number of wires may reduce towards internal-circumferential side from peripheral side of iron core.

USE - For reluctance motor.

ADVANTAGE - The side having reduced winding wires, has coil winding power stronger than other side, therefore end of iron core is not caulked, hence capability of reluctance motor enhances. As less tension is applied, coil stretching is suppressed to minimum, moreover by providing spacer on periphery of iron core, dielectric breakdown occurring at iron core is prevented.

DESCRIPTION OF DRAWING(S) - The figure shows the cross- sectional
view of
stator in reluctance motor. (20) Iron core; (30) Coil; (40) Wire
winding
portion.

CHOSEN-DRAWING: Dwg.1/8

TITLE-TERMS:

STATOR STRUCTURE RELUCTANCE MOTOR WIRE WIND PORTION NUMBER WIRE
REDUCE

PERIPHERAL SIDE IRON CORE

DERWENT-CLASS: V06 X11

EPI-CODES: V06-M01B; V06-M08A; V06-M08B; X11-D; X11-J02A; X11-J02B;

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